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DIST.	LTR	ENC
BENEDETTI, R.L.	X	X
BENJAMIN, A.		
BERMAN, H.S.		
CARNIVAL, G.J.		
CORDOVA, R.C.		
CROUCHER, D.W.		
DAVIS, J.G.		
FERRERA, D.W.		
HANNI, B.J.		
HEALY, T.J.		
HEDAHL, T.G.		
HILBIG, J.G.		
IDEKER, E.H.		
KIRBY, W.A.		
KUESTER, A.W.		
LEE, E.M.		
MANN, H.P.		
MARX, G.E.		
McKENNA, F.G.		
MORGAN, R.V.		
PIZZUTO, V.M.		
POTTER, G.L.		
RILEY, J.H.		
SANDLIN, N.B.		
SATTERWHITE, D.G.		
SCHUBERT, A.L.		
SETLOCK, G.H.		
SHEPLER, R. L.		
SULLIVAN, M.T.		
SWANSON, E.R.		
WILKINSON, R.B.		
WILSON, J.M.		
ZANE, J.O.		
Anderson G.	X	
Greengard J. T	X	
Taylor K adm Rec	X	X

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Reviewed for Addressee
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States Government **Department of Energy**

Memorandum

Rocky Flats Office

JAN 28 3 31 PM '93

JAN 27 1993

EG&G
ROCKY FLATS PLANT
CORRESPONDENCE CONTROL

ERD:PS:00853

Assessment of Technologies and Associated Wastes for Environmental Remediation Activities at the Rocky Flats Plant

Thomas L. Norris, Environmental Programs Leader, Los Alamos Technology Office (LATO), RFO

The DOE Rocky Flats Office (RFO) requests that the Los Alamos Technology Office (LATO/RF) prepare a statement of work for a formal project to assess technologies and associated waste for environmental remediation activities at the Rocky Flats Plant (RFP). Please send a draft statement of work by February 1, 1993, to RFO for review. Specific information about the project scope and desired deliverables follows.

Background

With its new mission as an environmental management site, RFP faces a large-scale, high-cost cleanup effort. To successfully perform this task, we must select ER technologies that are appropriate to RFP problems and are integrated into RFP sitewide planning.

As an early step in this process, RFP has performed treatability studies to evaluate candidate remedial technologies for various types of contamination identified at RFP. These studies help provide information necessary to evaluate the technologies' potential effectiveness. To date, RFP has completed the *Final Treatability Studies Plan (EG&G Rocky Flats Environmental Restoration Program, August 26, 1991)* and the *Annual Report for Treatability Studies at RFP, FY 1991 (DOE, Environmental Restoration Program, March 1992)*. These treatability studies conform with requirements specified in the Inter-Agency Agreement among DOE, the Environmental Protection Agency (EPA), and the Colorado Department of Health (CDH).

Although RFP has begun the process of evaluating potential technologies, we must build on this background information about ER technologies identified in the treatability studies plan.

Therefore, we request that LATO/RF develop a formal protocol for the task in the draft LATO/RF FY93 Environmental and Waste Management (EM) Work Package budget: "ER Waste/Technology Investment Strategy." The level of effort for the task should not exceed two full-time equivalents (FTEs).

Requested Project Scope

The scope for the protocol should include the following broad issues and needs related to ER technology selection:

A-SW-000533

1. Evaluate ER technologies. LATO/RF can provide a unique perspective by evaluating the state-of-the-art of ER in the national laboratories and other facilities in the DOE Complex. ER technologies in use or under development at other DOE sites might be applicable to RFP contaminated soils, surface water, and groundwater. The existing treatability studies are a solid base of information, but we must keep up with changes in the state-of-the-art technologies of environmental remediation. Other sources of ER technologies (e.g., DoD, universities, and industry) should be investigated as project resources permit. Actual visits to other sites would need to be preapproved by either Scott Grace or Paul Singh of my staff.

2. Analyze side effects of the technologies. To evaluate ER technologies properly, we must analyze the side effects of using each technology. One major concern is the amount of secondary waste generated. This information is not contained in the current RFP treatability studies. We must carefully estimate the amounts of ER secondary waste and incorporate this information into the Comprehensive Treatment and Management Plan (CTMP) to plan effectively for RFP sitewide waste processing systems.

3. Evaluate ER technologies in context of cleanup standards. The determination of which ER technologies will be most appropriate or effective will be influenced by the cleanup standards for soils or water. Consequently, the technologies must be evaluated in the entire context of the technology's use and effect on achieving cleanup goals. Using the range of possible cleanup options, LATO/RF will develop three alternative scenarios (Low, Baseline, and High) for selecting ER technologies based on cleanup standards (or risk assessment). These scenarios will aid in planning and, in particular, may serve as input to RFP Integrated Roadmap efforts.

4. Provide technical support to ERTD/EG&G-RF in completing Task 300 in support of EG&G Work Package Number 12601. Task 300 has two primary components: a review of RFP Treatability Studies Plan (TSP) to identify gaps in the coverage of ER technologies presented, and a review of ER technologies within the DOE complex that are potential solutions for filling these gaps. The task report will identify ER technologies within the DOE complex that are specifically applicable to RFP contaminated sites and, to the extent possible, review ER technologies from commercial industry and other ER programs (e.g., the EPA S.I.T.E. program). The task is due February 26, 1993. LATO/RF will coordinate the scope of this work with G. Anderson, the WP Manager.

Deliverables

For the first three issues listed above, LATO/RF will prepare a report summarizing the work and findings. Proposed deadlines for final draft(s) of these report(s) should be included in the statement of work. Deliverables for the fourth issue will be determined at a later date.

JAN 27 1993

Please complete a draft statement of work for RFO review by February 1, 1993. Please apprise RFO of your progress and resource needs. If you have any questions, please contact Scott Grace (ext. 7199) or Paul Singh (ext. 4651).

Richard J. Schassburger
Acting Director
Environmental Restoration Division

Attachment

cc w/Attachment:
T. Greengard, EG&G
G. Anderson, EG&G
D. Catlett, LATO/RF
J. Schroeder, LATO/RF